



PTO/38/08A (10-01)

PTO/SB/08A (10-01)

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Substitute for form 1449A/PTO		Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>			
(use as many sheets as necessary)			
Sheet	1	of	10
		Application Number 10/884,740	
		Filing Date October 14, 2003	
		First Named Inventor Shahini Sharma	
		Art Unit 1824	
		Examiner Name Sudhaker Patel	
		Attorney Docket Number 18015-D3	

U.S. PATENT DOCUMENTS

## **FOREIGN PATENT DOCUMENTS**

Examiner Initials	Cto No.	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Country Code	Number <sup>a</sup> , Kind Code <sup>b</sup> (Unknown)				
BB		WO	02/59077 (abstract)	08/2002	—	—	—
BB		WO	02/14201 (abstract)	02/2003	—	—	—
BB		WO	02/02119 (abstract)	01/2002	—	—	—
BB		WO	01/81340 (abstract)	11/2001	—	—	—
BB		BR	9802163 (abstract)	11/2000	—	—	—
BB		JP	01/181281 (abstract)	07/11/1989	—	—	—
BB		WO	00/23409 (abstract)	04/2000	—	—	—
BB		WO	89/62520 (abstract)	12/11/1999	—	—	—
BB		WO	88/25608 (abstract)	06/11/1998	—	—	—
BB		JP	10130241 (abstract)	05/11/1998	—	—	—

Examiner Signature	Jordan B. Bales	Date Considered	5/4/04
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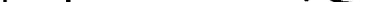
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Substitute for Form 1648A/PTO		Complete If Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>			
(use as many sheets as necessary)			
Sheet	2	of	10
		Application Number	10/684,740
		Filing Date	October 14, 2003
		First Named Inventor	Shalini Sharma
		Art Unit	1624
		Examiner Name	Sudhaker Patel
		Attorney Docket Number	18015-D3

**U.S. PATENT DOCUMENTS**

## FOREIGN PATENT DOCUMENTS

Examiner Initials	CIO No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Page, Column, Line, Where Relevant Passages or Relevant Figures Appear
		Country Code - Number <sup>a</sup> - Kind Code <sup>b</sup> (class)			
		WO 98/08836 (abstract)	03/1998	—	—
		WO 95/13262 (abstract)	05/1995	—	—
		WO 94/27993 (abstract)	12/1994	—	—
		WO 93/08799 (abstract)	06/1993	—	—
		JP 04159266 (abstract)	06/1992	—	—
		EP 407891 (abstract)	01/1991	—	—
		EP 393400 (abstract)	10/1990	—	—
		JP 01063570 (abstract)	03/1989	—	—
		WO 88/08418 (abstract)	11/1988	—	—
		EP 288190 (abstract)	10/1988	—	—

Examiner Signature		Date Considered	5/1/09
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Substitute for form 1449A/PTO		Complaint If Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		Application Number	10/684,740
(use as many sheets as necessary)		Filing Date	October 14, 2003
		First Named Inventor	Shalini Sharma
		Art Unit	1624
		Examiner Name	Sudhaker Patel
Sheet	3	of	10
		Attorney Docket Number	

**U.S. PATENT DOCUMENTS**

## **FOREIGN PATENT DOCUMENTS**

Examiner's Initials	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>2</sup> - Number <sup>3</sup> - Kind Code <sup>4</sup> (if known)			
24		JP 81040270 (abstract)	02/1986	—	—
22		JP 55015460 (abstract)	02/1980	—	—
22		GB 1488330 (abstract)	10/1977	—	—
22		JP 52025734 (abstract)	02/1977	—	—
22		DE 2527066 (abstract)	01/1976	—	—
22		DE 2459448 (abstract)	07/1975	—	—
22		FR 2191687 (abstract)	01/1974	—	—
22		JP 47025149 (abstract)	10/1973	—	—
22		JP 56115747 (abstract)	11/1981	—	—
22		DE 3012012 (abstract)	10/1981	—	—

**Examiner Signature** Mark L. S. Lee **Date Considered** 5/6/2021

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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 801.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Substitute for Form 1449A/PTO		Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>		Application Number	10/684,740
		Filing Date	October 14, 2003
		First Named Inventor	Shalini Sharma
		Art Unit	1624
		Examiner Name	Sudhaker Patel
		Attorney Docket Number	18015-D3
Sheet 4	of 10		

## **U.S. PATENT DOCUMENTS**

## **FOREIGN PATENT DOCUMENTS**

Examiner/ Inventor's Initials*	Cite No.*	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or References Figures Appear
		Country Code * - Number* - Kind Code* (if known)			
		JP 50014653 (abstract)	02/19/1975	—	—
		DE 2512673 (abstract)	10/19/1975	—	—
		DE 1929185 (abstract)	06/19/1969	—	—
		ZA 6705655 (abstract)	01/19/1977	—	—
		WO 87/30017	08-21-1987	Shinkai, et al.	—
		WO 98/07681	02-26-1998	Mainet, et al.	—
		WO 99/62520	12-09-1999	Young, et al.	—
		EP 71399	02-09-1983	Tsung, et al.	—
		WO 92/12123	07-23-1992	Schirrin, et al.	—
		WO 00/83161	10-26-2000	Kolb, et al.	—

Examiner Signature		Date Considered:	5/4/04
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 5

of 10

### Compliant Known

Application Number	10/684,740
Filing Date	October 14, 2003
First Named Inventor	Shailini Sharma
Group Art Unit	1624
Examiner Name	Sudhaker Patel
Attorney Docket Number	18015-03

NON PATENT PUBLICATIONS		
Examiner Initials	Clas No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue numbered, publisher, city and/or country where published
<i>G</i>		Karche, et al., "Electronic Effects in Migratory Groups...", Journal of Organic Chemistry, Vol. 66, No. 19, pages 6323-6332, 2001. (Abstract)
<i>D2</i>		Poupardin, et al., "First approach to the cycloisodityrosine unit of RA-IV", Tetrahedron Letters, Vol. 42, No. 8, pages 1523-1526, 2001. (Abstract)
<i>D3</i>		Manthey, et al., "Synthesis of Human Ultraviolet Filter Compounds...", Journal of Organic Chemistry, Vol. 64, No. 11, pages 3930-3939, 1999. (Abstract)
<i>D3</i>		Wu, et al., "Improvement on the preparation of .beta.-keto esters", Huaxue Shiji, Vol. 20, No. 5, pages 376-377, 1998. (Abstract)
<i>D3</i>		Wu, et al., "Total syntheses of furoguaiacin and related analogs", Huaxue Yanjiu Yu Yingyoung, Vol. 9, No. 6, pages 585-599, 1997. (Abstract)
<i>D3</i>		Fadnavis, et al., "Baker's yeast mediated enantioselective synthesis of anti-(2R,3R)...", Tetrahedron: Asymmetry, Vol. 8, No. 24, pages 4003-4006, 1997. (Abstract)
<i>D3</i>		Wu, et al.; "A modification of the Knorr oxidative coupling method for preparation of 1,4-diketones", Synthetic Communications, Vol. 27, No. 2, pages 331-338, 1997. (Abstract)
<i>D3</i>		Girard, et al. "Syntheses of the syn and anti .alpha.-amino-.beta.-hydroxy acid of vancomycin...", Tetrahedron Letters, Vol. 37, No. 44, pages 7967-7970, 1996. (Abstract)
<i>D3</i>		Smith, et al., "Synthesis and PAF antagonist activity of some 2,5-diaryltetrahydrofurans incorporating PAF-like functional groups", European Journal of Medicinal Chemistry, Vol. 31, No. 5, pages 347-358, 1996. (Abstract)
<i>D3</i>		Maruyama, et al., "A synthesis of (+,-)-pinoresinol and its related compound using potassium persulfate (K2S2O8) oxidation of benzoylacetates", Heterocycles, Vol. 37, No. 2, pages 839-845, 1994. (Abstract)
<i>D3</i>		Reo, et al., "Studies on cyclodepsipeptides. Part II. The total synthesis of jaspamide and geodiamide-D", Tetrahedron Letters, Vol. 34, No. 44, pages 7085-7088, 1993. (Abstract)

Examiner Signature	<i>Sudhaker Patel</i>	Date Considered	5/4/04
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INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

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Sheet 8 of 10

## Complete if known

Application Number	10/684,740
Filing Date	October 14, 2003
First Named Inventor	Shailini Sharma
Group Art Unit	1624
Examiner Name	Sudhalter Patel
Attorney Docket Number	18015-D3

## NON PATENT PUBLICATIONS

Examiner Initials	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), #s of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) of publisher, city, and/or country where published	T <sup>2</sup>
PSR	Colotta, et al., "Tricyclic heteroaromatic systems...", Farmaco, Vol. 48, No. 10, pages 1139-1154, 1991. (Abstract)		
PSR	Dillard, et al., "(Phenylmethoxy) phenyl derivatives of w-exo- and w-tetrahydrothalanic acids...", J. Med. Chem., Vol. 34, No. 9, pages 2769-2776, 1991. (Abstract)		
PSR	Bose, et al., "Synthesis of 4-phenylcoumarins from Dalbergia volubilis and Exostema carbaeum", Phytochemistry, Vol. 30, No. 7, pages 2438-2439, 1991. (Abstract)		
PSR	Bose, et al., "Synthesis of 4-phenylcoumarins", Indian J. Chem., Sect. B, Vol. 28B, No. 5, pages 422-444, 1990. (Abstract)		
PSR	Colotta, et al., "Tricyclic heteroaromatic systems...", J. Med. Chem., Vol. 33, No. 8, pages 2546-2551, 1990. (Abstract)		
PSR	Kameo, et al., "Studies on hypolipidemic agents, IV. 3-[4-(Phenylthio) benzoyl] propanoic acid derivatives", Chem. Pharm. Bull., Vol. 37, No. 5, pages 1260-1267, 1989. (Abstract)		
PSR	Colotta, et al., "Tricyclic heteroaromatic systems: synthesis...", J. Pharm. Sci., Vol. 78, No. 3, pages 239-242, 1989. (Abstract)		
PSR	Tanaka, et al., "Total synthesis of coumarinolignans, aquilochin (deomiscosin C) and deomiscosin D", Chem. Pharm. Bull., Vol. 36, No. 10, pages 3833-3837, 1988. (Abstract)		
PSR	Panner, et al., "Synthesis of new naturally occurring 4-phenyl-2H-1-benzopyran-2-ones", Bull. Chem. Soc. Jpn., Vol. 61, No. 6, pages 2277-2279, 1988. (Abstract)		
PSR	Colotta, et al., "The correct synthesis of 2,3-dihydro-2-aryl-4-R-[1]benzopyrano[4,3-c]pyrazole-3-ones", Tetrahedron Letters, Vol. 28, No. 43, pages 5165-5169, 1987. (Abstract)		
PSR	Tanaka, et al., "Total synthesis of daphnetin, a coumarinolignoid", Chem. Pharm. Bull., Vol. 34, No. 2, pages 628-632, 1986. (Abstract)		

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 7 of 10

## Comp'l If Known

Application Number	10/684,740
Filing Date	October 14, 2003
First Named Inventor	Shalini Sharma
Group Art Unit	1624
Examiner Name	Sudhaker Patel

Attorney Docket Number 18015-D3

## NON PATENT PUBLICATIONS

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SJ		Ahuwalia, et al., "Synthesis of stavenin and melanettin", Symp. Pap.- IUPAC Int. Symp. Chem. Nat. Prod., 11th, Volume 3, pages 11-13, 1978. (Abstract)	-
JR		Yamoguchi, "Degradation of prototargin with metallic sodium in liquid ammonia", Ringer Shikenjo Kenkyu Hokoku, Vol 201, pages 1-78, 1976. (Abstract)	-
JR		Okumura, et al., "Synthesis of chromone-3-carboxanilides", Chem. Pharm. Bull., Vol 22, No. 2, pages 331-338, 1974. (Abstract)	-
JR		Von Wacek, et al., "Synthesis of methoxylated compounds for a comparative investigation of the stability of methyl ether groups", Monatsh. Chem., Vol. 87, No. 3, pages 744-753, 1966. (Abstract)	-
JR		Iwasa, et al., "The preparation of the biosynthetic precursor 3,7-dihydroxy-2,6-dimethoxyphenthroindolizidine", J. Nat. Prod., Vol. 51, No. 1, pages 172-175, 1998. (Abstract)	-
JR		Wong, et al., "Wadisolactones and coumaran derivatives as new antihelminthic and antiphlogistic principles", Arzneim.-Forsch., Vol. 38, No. 5, pages 661-665, 1988. (Abstract)	-
JR		Witak, et al., "Synthetic acid-reductions. 3,4-Dihydroxy-2H-1-benzopyran-2-one and their cis- and trans-4a, 5,6,7,8,8a-hexahydro diastereomers", J. Med. Chem., Vol. 31, No. 7, pages 1437-1445, 1988. (Abstract)	-
JR		Entzeroth, et al., "Preparation of 3-(3-indolyl) Lactic acids...", Liebigs Ann. Chem., No. 2, pages 226-230, 1983. (Abstract)	-
JR		Bhakuni, et al., Biosynthesis of tylophorine and tylophorinine", Tetrahedron, Vol. 37, No. 2, pages 401-407, 1981. (Abstract)	-
JR		Naidu, et al., "Debenzylation by nickel-aluminum alloy", J. Indian Inst. Sci., Vol. 62, No. 10, pages 177-180, 1980. (Abstract)	-
JR		Oka, et al., "Syntheses of N-heterocyclic compounds. XXVI. Syntheses of pyrido [3,4-d] pyridazine derivatives", Chem. Pharm. Bull., Vol. 23, No. 10, pages 2308-2317, 1975. (Abstract)	-

Examiner  
Signature

Sudhaker Patel

Date  
Considered

8/14/03

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 8 of 10

**C**omplete if Known

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First Named Inventor	Shalini Sharma
Group Art Unit	1624
Examiner Name	Sudhaker Patel
Attorney Docket Number	18015-D3

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(S)		Saunders, et al., "Syntheses of carbon-14-labeled prazidolol dihydrochloride", J. Labelled Compd. Radiopharm., Vol. 22, No. 8, pages 889-891, 1985. (Abstract)	-
(S)		Ampoli, et al., "Synthesis and sweet taste of some 2-phenylbenzodioxanes", J. Agric. Food Chem., Vol. 34, No. 2, pages 339-344, 1986. (Abstract)	-
(S)		Winters, et al., "Synthesis and pregnancy terminating activity of pyrazolo [1,5-a] Indoles and quinolines", Eur. J. Med. Chem.-Chim. Ther., Vol. 19, No. 3, pages 215-218, 1984. (Abstract)	-
(S)		Herbert, et al., "Biosynthesis of phenanthroindolizidine alkaloids: Incorporation of 2-pyrrolidin-2-ylacetophenone and benzoylacetic acid and derivatives", J. Chem. Soc., Perkin Trans. 1, No. 4, pages 825-831, 1984. (Abstract)	-
(S)		Toja, et al., "Synthesis and pregnancy terminating activity of 2-arylpyrazolo [5,1-a] isoindoles and isoquinolines", Eur. J. Med. Chem. -Chim. Ther., Vol. 17, No. 3, pages 223-227, 1982. (Abstract)	-
(S)		Ahuwalia, et al., "An unambiguous synthesis of melanettin", Indian J. Chem., Sect. B, Vol. 21B, No. 3, pages 186-188, 1982. (Abstract)	-
(S)		Peller, et al., "Synthesis and NMR spectra of 2,6- and 2,4-diaryl-3,7-dioxabicyclo [3.3.0] octane", J. Chem. Soc., Perkin Trans. 1, No. 1, pages 183-190, 1982. (Abstract)	-
(S)		Mangla, et al., "Synthesis of substituted 6,7-diphenyl-1,2,3,5,6,8a-hexahydroindolizines", Indian J. Chem., Sect. B, Vol. 19B, No. 11, pages 931-937, 1980. (Abstract)	-
(S)		Mangla, et al., "Synthesis of tylophorine", Tetrahedron, Vol. 36, No. 17, pages 2489-2490, 1980. (Abstract)	-
(S)		Ahuwalia, et al., "A novel synthesis of 4-phenylcoumarins having a free hydroxyl group in the phenyl ring: synthesis of melanettin and stevenin", Heterocycles, Vol. 14, No. 9, pages 1329-1330, 1980. (Abstract)	-
(S)		Charlton, et al., "The synthesis of 2-methylchromone-3-carboxylic acid", J. Heterocycl. Chem., Vol. 17, No. 3, pages 593-594, 1980. (Abstract)	-

Examiner Signature

Sudhaker Patel

Date Considered

5/4/04

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Sheet 9 of 10

Completeness

Application Number	10/684,740
Filing Date	October 14, 2003
First Named Inventor	Shalini Sharma
Group Art Unit	1624
Examiner Name	Sudhaker Patel
Attorney Docket Number	1801S-03

### NON PATENT PUBLICATIONS

Examiner Initials	Cite No. *	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue numbers, publisher, city and/or country where published	T?
<i>SP</i>		Lu, et al., "The New Antidiabetic Drug MCC-555 Acutely Sensitizes Insulin Signaling in Isolated Cardiomyocytes". Endocrinology, Vol 139, No. 11, pages 4531-4539, (1998).	
<i>SP</i>		Kees, et al., "Perfluoro-N-[4-(1 H-tetrazol-5-ylmethyl) Phenyl]-alkenamides. A New Class of Oral Antidiabetic Agents", Journal of Medicinal Chemistry, Vol 32, pages 11-13, (1989).	
<i>SP</i>		Shinkai, et al. "4-(trans-4-Methylcyclohexyl)-4-Oxobutyric Acid (JTT-508). A New Class of Antidiabetic Agent", Journal of Medicinal Chemistry, Vol 41, No. 27, pages 5420-5428, (1998).	
<i>SP</i>		Abstract 560-P, Hodge, et al. "PN2022: Antidiabetic Efficacy and Reversal of Steatohepatitis in ob/ob Mice", Diabetes, Abstract Book 62nd Scientific Sessions, Vol. 51 Suppl. 2, page A139, June 2002.	
<i>SP</i>		Abstract 561-P, Hodge, et al., "PN2034: Orally Active Antidiabetic Agent with a Unique Spectrum of Activity and Enhanced Safety Profile", Diabetes, Abstract Book 62nd Scientific Sessions, Vol. 51 Suppl. 2, page A139, June 2002.	
<i>SP</i>		Abstract 568-P, Lu, et al., "A Novel Antidiabetic Agent That is a Selective PPAR Modulator", Diabetes, Abstract Book 62nd Scientific Sessions, Vol 51, Suppl. 2, page A141, June 2002.	
<i>SP</i>		Abstract 586-P, von Borstel, et al. "PN2034: Reversal of Insulin Resistance and Attenuation of Weight Gain in Mice on a High-Fat Diet", Diabetes, Abstract Book 62nd Scientific Sessions, Vol 51, Suppl. 2, page A145, June 2002.	
<i>SP</i>		Poster #560, Hodge, et al., "PN2022: Antidiabetic Efficacy and Reversal of Steatohepatitis in ob/ob Mice." Presentation at the 62nd Scientific Sessions, Meeting of the American Diabetes Association on June 14-18, 2002 and corresponding to Abstract 560-P.	
<i>SP</i>		Poster #561, Hodge, et al., "PN2034: Orally Active Antidiabetic Agent with a Unique Spectrum of Activity and Enhanced Safety Profile", Presentation given at the 62nd Scientific Sessions, Meeting of the American Diabetes Association on June 14-18, 2002 and corresponding to Abstract 560-P.	
<i>SP</i>		Poster #568, Lu, et al., "PN2034-A Novel Antidiabetic Agent That is a Selective PPAR Modulator", Presentation given at the 62nd Scientific Sessions, Meeting of the American Diabetes Association on June 14-18, 2002 and corresponding to Abstract 568-P.	
<i>SP</i>		Poster #586, von Borstel, et al., "PN2034: Reversal of Insulin Resistance and Attenuation of Weight Gain in Mice on a High-Fat Diet", Presentation given at the 62nd Scientific Sessions, Meeting of the American Diabetes Association on June 14-18, 2002 and corresponding to Abstract 586-P.	

Examiner Signature

*Shalini Sharma*

Date Considered

5/14/04

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Sheet 10 of 10

Complaint If Known	
Application Number	10/684,740
Filing Date	October 14, 2003
First Named Inventor	Shalini Sharma
Group Art Unit	1624
Examiner Name	Sudhaker Patel
Attorney Docket Number	18015-D3

#### NON-PATENT PUBLICATIONS

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Signature** Franklin C. Cope **Date-  
Considered** 8/4/21

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<i>Complete if Known</i>	
<b>Application Number</b>	10/684,740
<b>Filing Date</b>	October 14, 2003
<b>First Named Inventor</b>	Shalini Sharma
<b>Art Unit</b>	1614
<b>Examiner Name</b>	Sudhaker Patel
<b>Attorney Docket Number</b>	18015-D3

## **U.S. PATENT DOCUMENTS**

## **FOREIGN PATENT DOCUMENTS**

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		<b>Application Number</b>	10/684,740
		<b>Filing Date</b>	October 14, 2003
		<b>First Named Inventor</b>	Shalini Sharma
		<b>Group Art Unit</b>	1614
		<b>Examiner Name</b>	Sudhaker Patel
(use as many sheets as necessary)		<b>Attorney Docket Number</b>	18015-D3
Sheet	2	of	2

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<i>JW</i>		Witiak, et al., "Synthesis of Ethyl 6-Substituted-Chroman-and-Chromone-2-carboxylates. A Comparative Structure-Activity Study Employing the 6-Phenyl and Phenoxy Analogs in the Triton Hyperlipidemic Rat Model", Journal Medical Chemistry, Vol. 18, No. 9, Pages 934-942, 1975.	
		</	

Examiner Signature Patricia M. O'Leary Date Considered 8/30/05

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